

METHOD FOR IDENTIFYING INHIBITORS OF DUAL SUBSTRATE ENZYMES

Abstract of Disclosure

A method for measuring the activity of dual substrate enzymes and for identifying compounds that modulate the activity of dual substrate enzymes comprising first substrate, a macromolecule that is enzymatically modified with a radioactively-labeled portion of the second substrate, said method comprising: a. adding a capture resin to a buffered mixture of an enzyme, allowing the enzyme to catalyze transfer of the radiolabeled portion of the radiolabeled second substrate to the non-radiolabeled first substrate, radiolabeled first substrate, and a radiolabeled second substrate in the presence or absence of a test compound; b. removing unreacted radiolabeled second substrate; c. adding a scintillant resin to the enzyme-radiolabeled first substrate mixture; and d. measuring the amount of radiolabeled first substrate by scintillation counting, measuring the amount of radiolabeled first substrate by scintillation counting, and comparing the two measurements.

100-200-300-400-500-600-700-800-900